

(19) World Intellectual Property Organization  
International Bureau



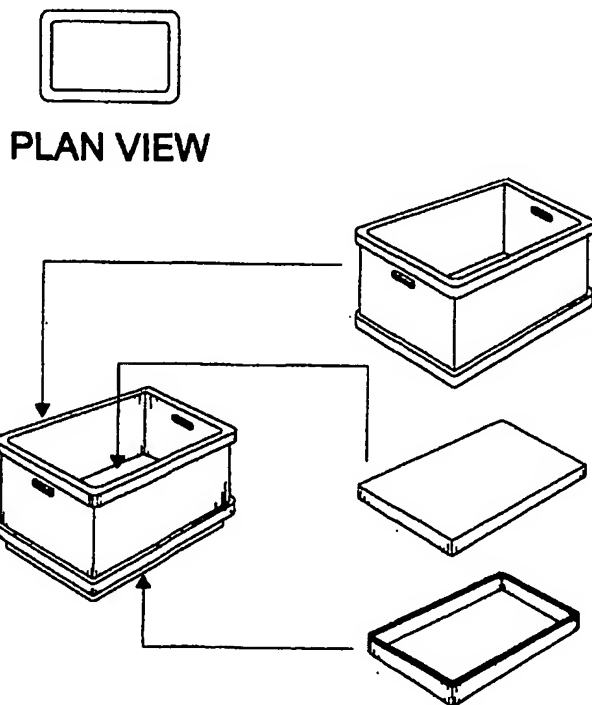
(43) International Publication Date  
15 May 2003 (15.05.2003)

PCT

(10) International Publication Number  
**WO 03/039979 A1**

- (51) International Patent Classification<sup>7</sup>: **B65D 21/02**
- (21) International Application Number: **PCT/PH01/00004**
- (22) International Filing Date: **3 December 2001 (03.12.2001)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:  
UM-2-2001-00388  
23 October 2001 (23.10.2001) **PH**
- (81) Designated States (*national*): **AU, CN (utility model), JP (utility model), KR (utility model), SG.**
- (84) Designated States (*regional*): **European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).**
- Declaration under Rule 4.17:**  
— *of inventorship (Rule 4.17(iv)) for US only*
- Published:**  
— *with international search report*
- (71) Applicant and  
(72) Inventor: **SOLIVEN, Tomas [PH/PH]; 73 Kanlaon Street, STA. Mesa Heights, Quezon City 1114 (PH).**
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **A STACKABLE CRATE**



(57) Abstract: The utility model relates in general to a container but more particular a stackable crate. It is primary object to present utility model provide a stackable crate having a built-in handle is smoothened surface to prevent hands from ge3tting cuts thereon. Still an object to provide stackable crate having upper and lower flange edges which reinforce the crate from bumps and collision. Another object is to provide stackable having marginal ribs on it's bottom wall which serve as a lock for the stacks crate from moving sideways.

WO 03/039979 A1

## A STACKABLE CRATE

This utility model relates in general to container but more particular a stackable crate.

It is primary object of the present utility model provide a stackable crate having a built in handle having smoothened surface to prevent hands from getting cuts thereon.

Still an object to provide stackable having flange upper and lower edges which reinforce the crate from bumps and collision.

Another object is to provide stackable having marginal ribs in bottom wall which serve as lock for the stacks crate from moving sideways.

These and other object is the advantages of the presents utility model will become apparent upon reading details description taken in conjunction with the appended drawings, wherein;

FIGURE 1 is a perspective view of the crate ; and

FIGURE 2 is a front view of the isolated portion thereof.

Referring now the different views of the drawings, numerical designated parts all throughout, shown and this for stackable crate is presented as model 10

Said stackable crate 10 compromise an open top crate body 11 having a bottom wall 12 and pheripheral side wall 13. Said crate body 11 having an upper flanged 23 which extend downward 14 then extend inwardly 15 and upwardly 16 and lower flange 18 which extends 17 then inwardly 19 and downwardly 20.

These flanged upper and lower edges 23 and 18 of said crate body 11 defines a reinforcement agains bumps and collision which defines a handle thereon with the inward extentions 15 and 19 defines smooth surface for carrying the crate 10.

Said crate body 11 further having marginal rib 21 downwardly extending from the bottom wall 12 thereof which as lock to prevent two stacked crate from moving on sideways. A plurality of slot 22 are provide near the edge of said crate body for insertion of fingers when the crate is held.

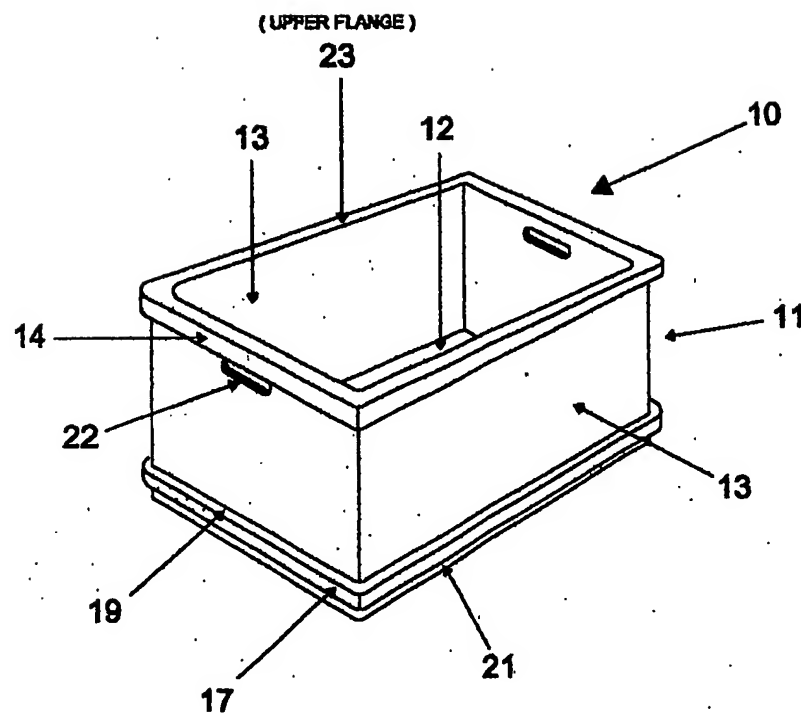
The crate body 11 is preferably made of metallic material or plastic material

**CLAIM :**

The construction of stackable crate comprising an open top crate body having an upper flange and lower flange, said upper flange extends downwardly, inwardly and upwardly. Said lower flange extends upwardly, then inwardly and downwardly and a marginal rib downwardly extending from the bottom wall side crate body and plurality of slots provided an upper portion of the body.

1

FIG. 1



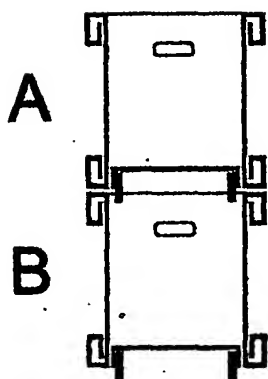
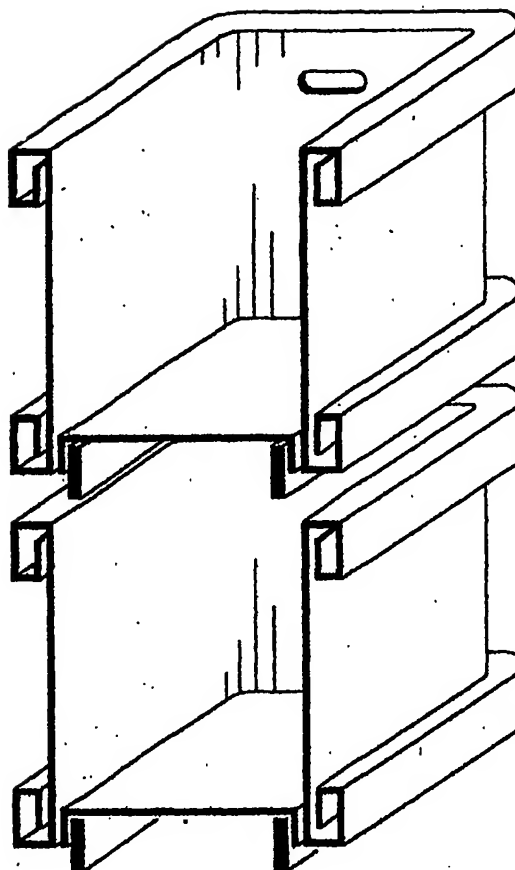
STACKABLE CRATE  
PERSPECTIVE

FIG. 2

2

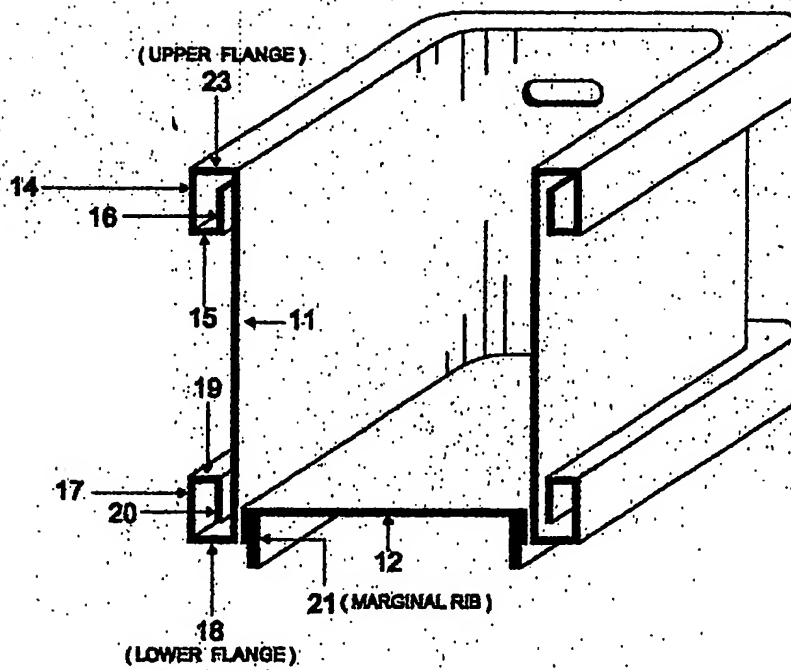
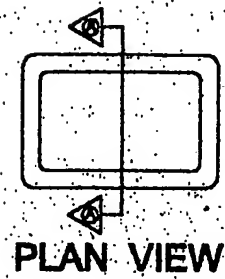
CRATE - A

CRATE - B



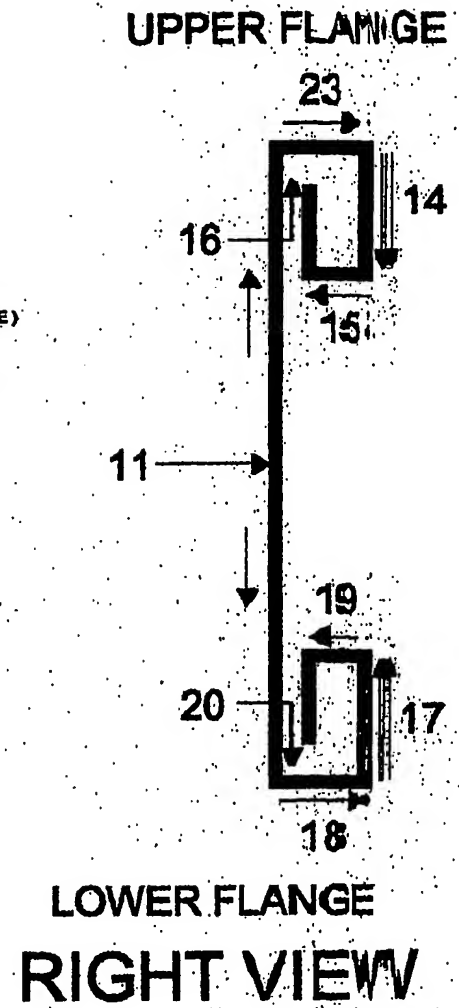
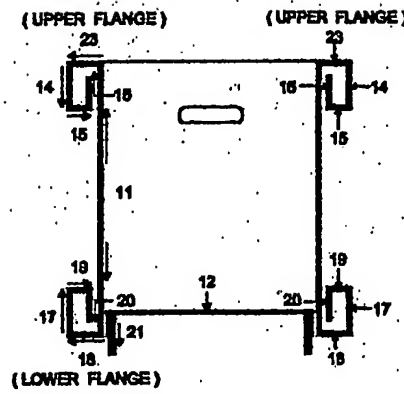
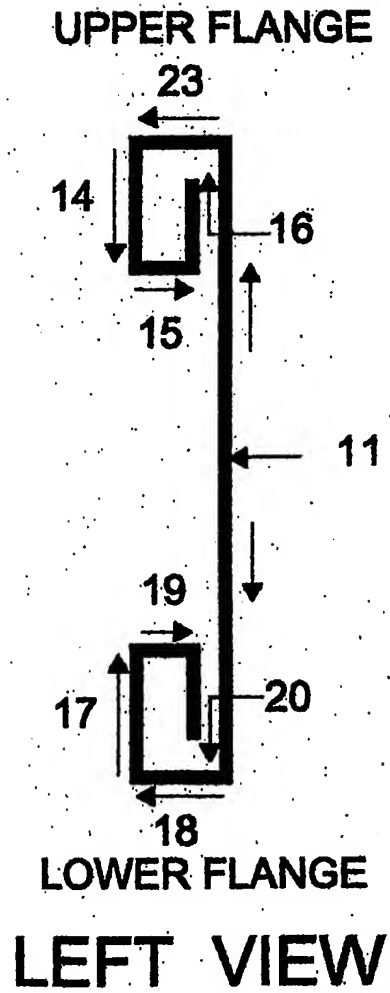
DETAILS

2-A



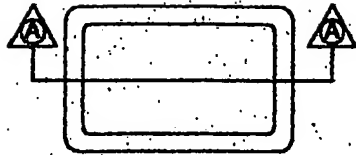
CROSS SECTION

## 2-B

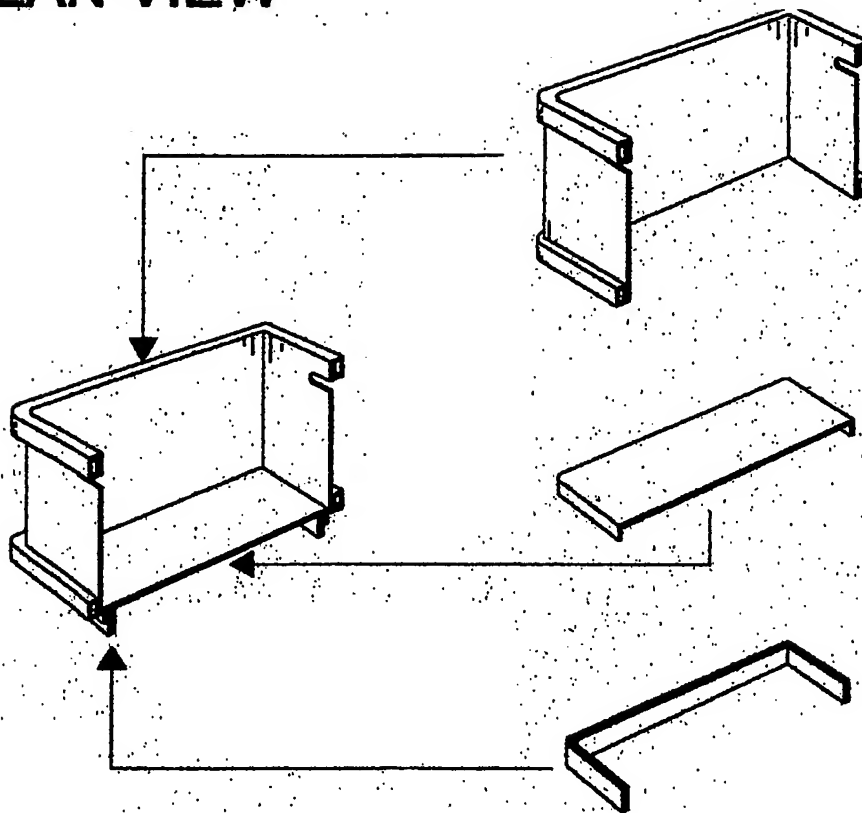




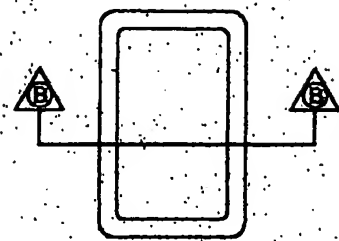
3-A



PLAN VIEW

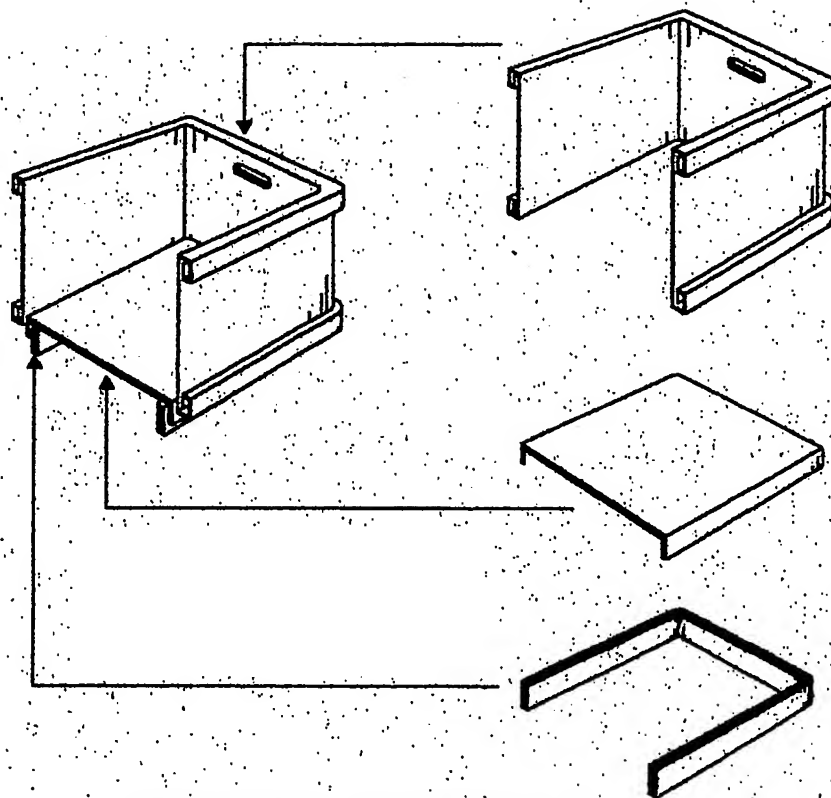


SECTIONAL PERSPECTIVE  
SECTION A-A



PLAN VIEW

3-B



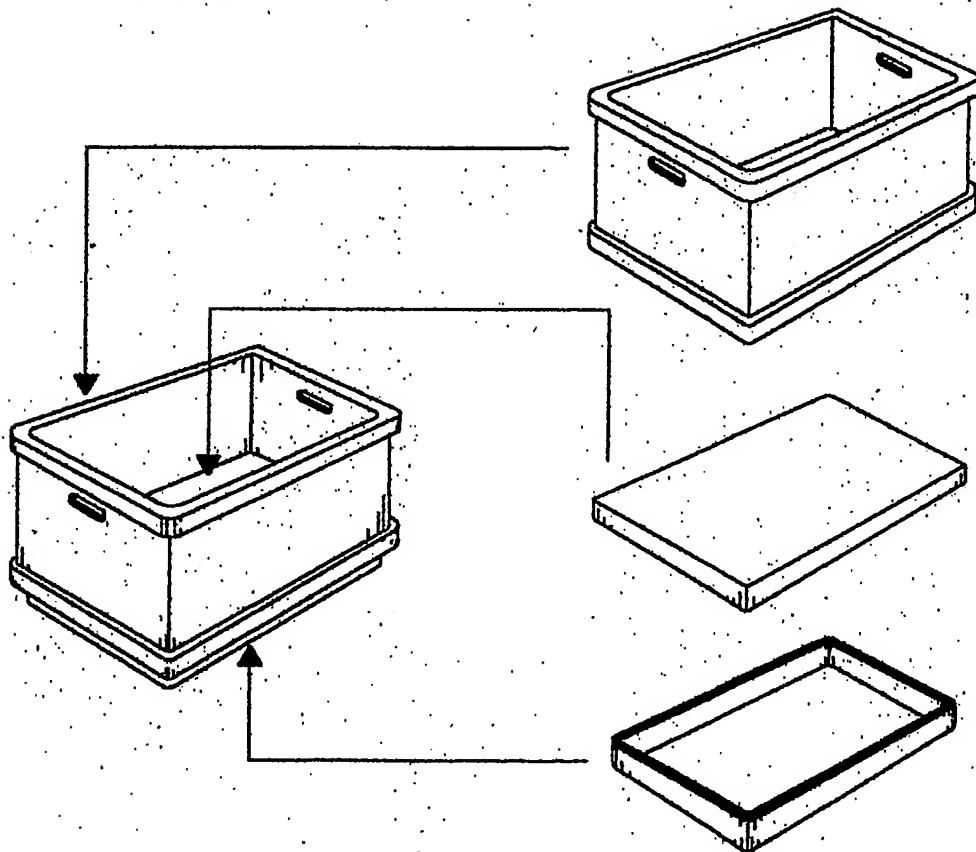
SECTIONAL PERSPECTIVE

SECTION B-B

3-C



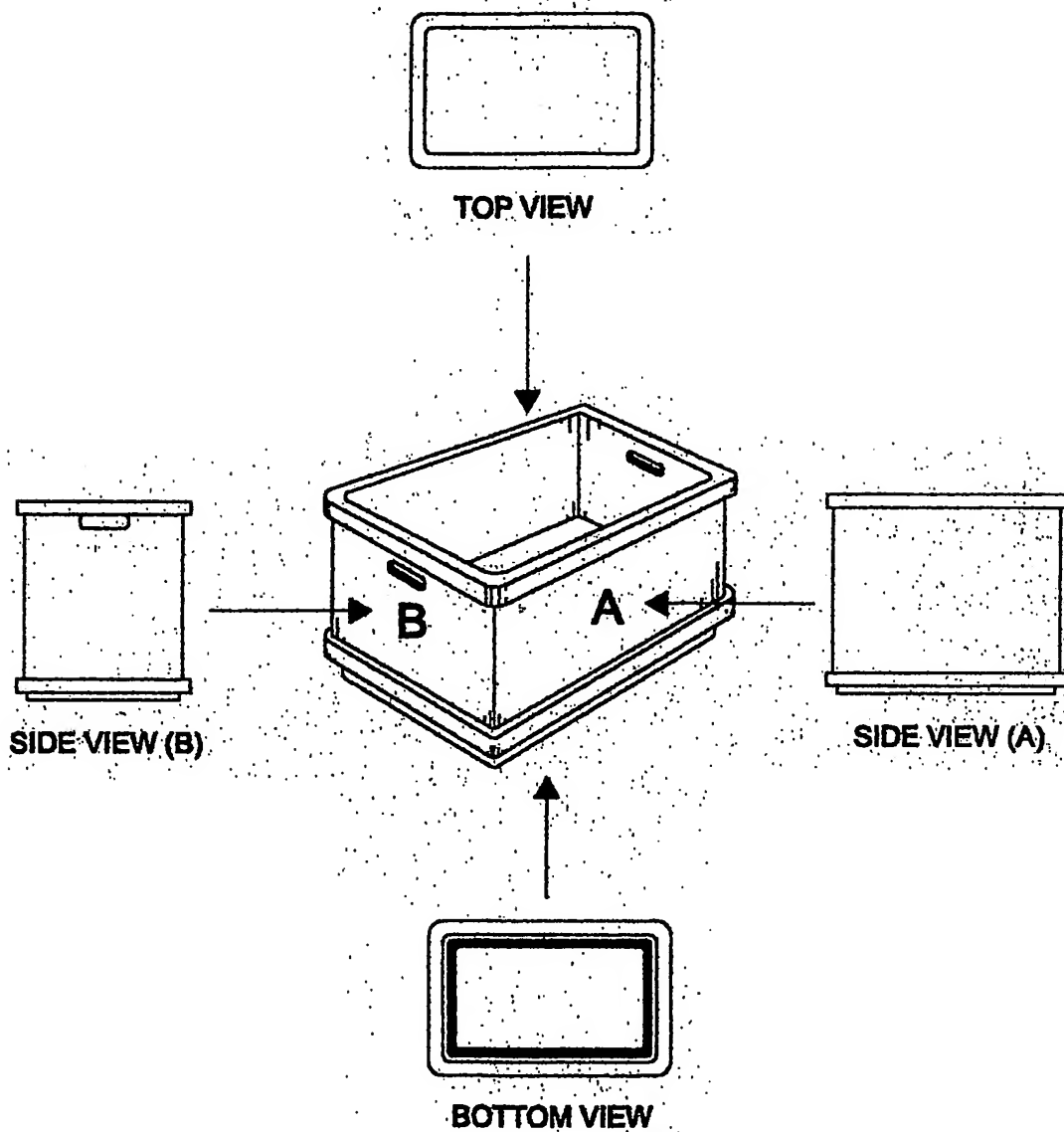
PLAN VIEW



EXPLODED PERSPECTIVE

# VIEWS PERSPECTIVE

4



## INTERNATIONAL SEARCH REPORT

 International application No.  
 PCT/PH01/00004

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7 B65D 21/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

KR,EP,US : IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

ESPACENET "stackable crate"

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 217 148 A2 (Rehbock, Joachim) 29 AUGUST 1986 see the whole document figures 3, 6, 7,	1
A	US 4,971,202 A (Thomas box, shrewsbury, NJ.) 20 NOVEMBER 1990 see the whole document figures 1, 2, 3,	1

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family


Date of the actual completion of the international search

29 JULY 2002 (29.07.2002)

Date of mailing of the international search report

29 JULY 2002 (29.07.2002)

Name and mailing address of the ISA/KR


 Korean Intellectual Property Office  
 920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
 Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

CHUNG, Young Mo

Telephone No. 82-42-481-5469



**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**